

**Abstract**

**Alcohol dehydrogenases with high solvent and temperature stability**

The invention relates to biocatalysts showing alcohol dehydrogenase activity obtainable from *Rhodococcus ruber*, their preparation, their use in the oxidation of secondary alcohols and/or the reduction of ketones, as well as nucleic acids coding for these alcohol dehydrogenases and microorganisms transformed with nucleic acids coding for these biocatalysts and their use for producing the biocatalyst or oxidizing secondary alcohols and/or reducing ketones.